

**From:** [R6HarveyENVL](#)  
**To:** [R6HarveyInfo](#)  
**Subject:** FW: M6H1 - Harvey Response \_ TAGA Maps Through Today  
**Date:** Monday, September 11, 2017 4:43:33 PM

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**From:** Gray, David  
**Sent:** Monday, September 11, 2017 4:43:31 PM (UTC-06:00) Central Time (US & Canada)  
**To:** Delgado, Eric  
**Cc:** Spalding, Susan; R6HarveyENVL; Carroll, Craig; Smalley, Bryant; Martin, John  
**Subject:** RE: M6H1 - Harvey Response \_ TAGA Maps Through Today

Thank you

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**From:** Delgado, Eric  
**Sent:** Monday, September 11, 2017 4:43 PM  
**To:** Gray, David <gray.david@epa.gov>  
**Cc:** Spalding, Susan <Spalding.Susan@epa.gov>; R6HarveyENVL <R6HarveyENVL@epa.gov>; Carroll, Craig <Carroll.Craig@epa.gov>; Smalley, Bryant <smalley.bryant@epa.gov>; Martin, John <martin.john@epa.gov>  
**Subject:** FW: M6H1 - Harvey Response \_ TAGA Maps Through Today  
**Importance:** High

The Environmental Unit has determined that the maps are ready for release. Please use the following statement.

Tuesday, 09/05/2017; Wednesday, 09/06/2017; Thursday, 09/07/2017; and Sunday, 09/10/2017

The Environmental Response Team's (ERT's) mobile laboratory, using the Trace Atmospheric Gas Analyzer (TAGA) tandem mass spectrometer system, monitored the neighborhoods adjacent to the Valero Refinery, the Pasadena Refinery and the Kinder Morgan Terminal in Harrisburg/Manchester of Houston, Texas and Pasadena, Texas area. The air monitoring conducted on Tuesday, 09/05/2017; Wednesday, 09/06/2017; Thursday, 09/07/2017; and Sunday, 09/10/2017 indicated that the TAGA-specific analytes were below the Texas Commission on Environmental Quality (TCEQ) comparison levels (short-term Air Monitoring Comparison Values (AMCVs)). Therefore, it appears that there is no significant air concern based upon the TCEQ comparison levels.

Substance	CAS #	TAGA detection limit (ppbv)	Short-term AMCV Health (ppbv)	Short-term AMCV Health (µg/m3)
1,1,1-trichloroethane	71-55-6	1	1700	9500
1,1-dichloroethane	75-34-3	1	1000	4000
1,1-dichloroethylene	75-35-4	1	180	710
benzene	71-43-2	1	180	580
ethylbenzene	100-41-4	1	20000	86000

m/p-xylene	179601-23-1	1	1700	7400
methyl tert-butyl ether	1634-04-4	1	500	1800
o-xylene	95-47-6	1	1700	7400
tetrachloroethylene	127-18-4	1	1000	6800
toluene	108-88-3	1	4000	15000
trichloroethylene	79-01-6	1	100	540

### What's an AMCV?

AMCV is a collective term used to describe chemical-specific air concentrations used to evaluate air monitoring data that are set to protect human health and welfare. Short-term AMCVs are based on data concerning acute health effects. AMCVs may contain health-based Reference Values (ReVs) and health- and welfare-based ESL values.

**AMCVs** are screening levels used in TCEQ's evaluation of ambient air monitoring data to assess the potential for measured concentrations of specific chemicals to cause health or welfare effects. Health-based AMCVs are levels at which exposure is unlikely to result in adverse health effects.

Eric Delgado  
Federal On Scene Coordinator  
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214.437.9809  
[Delgado.Eric@epa.gov](mailto:Delgado.Eric@epa.gov)

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**From:** Thumma, Janelle [<mailto:Janelle.Thumma@WestonSolutions.com>]  
**Sent:** Monday, September 11, 2017 3:48 PM  
**To:** Rauscher, Jon <[Rauscher.Jon@epa.gov](mailto:Rauscher.Jon@epa.gov)>; Delgado, Eric <[Delgado.Eric@epa.gov](mailto:Delgado.Eric@epa.gov)>  
**Cc:** Charters, David <[Charters.DavidW@epa.gov](mailto:Charters.DavidW@epa.gov)>; R6HarveyENVL <[R6HarveyENVL@epa.gov](mailto:R6HarveyENVL@epa.gov)>; R6HarveyInfo <[R6HarveyInfo@epa.gov](mailto:R6HarveyInfo@epa.gov)>; Turner, Philip <[Turner.Philip@epa.gov](mailto:Turner.Philip@epa.gov)>  
**Subject:** RE: M6H1 - Harvey Response \_ TAGA Maps Through Today

See attached for the requested edits.

Thanks!

*Janelle Thumma*  
717.713.5581 (cell)  
517.381.5952 (office)

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**From:** Rauscher, Jon [<mailto:Rauscher.Jon@epa.gov>]  
**Sent:** Monday, September 11, 2017 3:31 PM  
**To:** Eric Delgado <[delgado.eric@epa.gov](mailto:delgado.eric@epa.gov)>  
**Cc:** Charters, David <[Charters.DavidW@epa.gov](mailto:Charters.DavidW@epa.gov)>; R6HarveyENVL <[R6HarveyENVL@epa.gov](mailto:R6HarveyENVL@epa.gov)>;

R6HarveyInfo <[R6HarveyInfo@epa.gov](mailto:R6HarveyInfo@epa.gov)>; Turner, Philip <[Turner.Philip@epa.gov](mailto:Turner.Philip@epa.gov)>; Thumma, Janelle <[Janelle.Thumma@WestonSolutions.com](mailto:Janelle.Thumma@WestonSolutions.com)>

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Sorry – a few more things:

1. Define Air Monitoring Comparison Values (AMCVs)
2. Provide link to AMCVs - <https://www.tceq.texas.gov/toxicology/amcv/about>
3. Define Texas Commission on Environmental Quality (TCEQ)

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**From:** Thumma, Janelle [<mailto:Janelle.Thumma@WestonSolutions.com>]

**Sent:** Monday, September 11, 2017 3:12 PM

**To:** Delgado, Eric <[Delgado.Eric@epa.gov](mailto:Delgado.Eric@epa.gov)>; Rauscher, Jon <[Rauscher.Jon@epa.gov](mailto:Rauscher.Jon@epa.gov)>

**Cc:** Charters, David <[Charters.DavidW@epa.gov](mailto:Charters.DavidW@epa.gov)>; R6HarveyENVL <[R6HarveyENVL@epa.gov](mailto:R6HarveyENVL@epa.gov)>;

R6HarveyInfo <[R6HarveyInfo@epa.gov](mailto:R6HarveyInfo@epa.gov)>; Turner, Philip <[Turner.Philip@epa.gov](mailto:Turner.Philip@epa.gov)>

**Subject:** RE: M6H1 - Harvey Response \_ TAGA Maps Through Today

Here are separate versions of each as well.

*Janelle Thumma*

717.713.5581 (cell)

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**From:** Delgado, Eric [<mailto:Delgado.Eric@epa.gov>]

**Sent:** Monday, September 11, 2017 2:12 PM

**To:** Rauscher, Jon <[Rauscher.Jon@epa.gov](mailto:Rauscher.Jon@epa.gov)>

**Cc:** Charters, David <[Charters.DavidW@epa.gov](mailto:Charters.DavidW@epa.gov)>; R6HarveyENVL <[R6HarveyENVL@epa.gov](mailto:R6HarveyENVL@epa.gov)>;

R6HarveyInfo <[R6HarveyInfo@epa.gov](mailto:R6HarveyInfo@epa.gov)>; Turner, Philip <[Turner.Philip@epa.gov](mailto:Turner.Philip@epa.gov)>; Thumma, Janelle <[Janelle.Thumma@WestonSolutions.com](mailto:Janelle.Thumma@WestonSolutions.com)>

**Subject:** RE: M6H1 - Harvey Response \_ TAGA Maps Through Today

We will make the edits and send back for your review.

Eric Delgado  
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**From:** Rauscher, Jon

**Sent:** Monday, September 11, 2017 2:02 PM

**To:** Delgado, Eric <[Delgado.Eric@epa.gov](mailto:Delgado.Eric@epa.gov)>

**Cc:** Charters, David <[Charters.DavidW@epa.gov](mailto:Charters.DavidW@epa.gov)>; R6HarveyENVL <[R6HarveyENVL@epa.gov](mailto:R6HarveyENVL@epa.gov)>;

R6HarveyInfo <[R6HarveyInfo@epa.gov](mailto:R6HarveyInfo@epa.gov)>; Turner, Philip <[Turner.Philip@epa.gov](mailto:Turner.Philip@epa.gov)>

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From all the maps for all 4 days.

Please remove the word “safe” from the footer describing the AMCVs.

It is important to note that chemical analysis alone cannot be used as an indication of safety. There are multiple risk factors that can cause harm, industrial chemicals are only one of those risk factors.

Please delete the last two sentence of the footer related to ESLs. Only need the definition of AMCVs.

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**From:** Delgado, Eric  
**Sent:** Monday, September 11, 2017 1:48 PM  
**To:** Rauscher, Jon <[Rauscher.Jon@epa.gov](mailto:Rauscher.Jon@epa.gov)>; Turner, Philip <[Turner.Philip@epa.gov](mailto:Turner.Philip@epa.gov)>  
**Cc:** Charters, David <[Charters.DavidW@epa.gov](mailto:Charters.DavidW@epa.gov)>; R6HarveyENVL <[R6HarveyENVL@epa.gov](mailto:R6HarveyENVL@epa.gov)>; R6HarveyInfo <[R6HarveyInfo@epa.gov](mailto:R6HarveyInfo@epa.gov)>  
**Subject:** FW: M6H1 - Harvey Response \_ TAGA Maps Through Today

EU

Here are the Daily TAGA Maps for 9/5, 9/6, 9/7, and 9/10. Please let me know if they are ready to be made publicly available.

Eric Delgado  
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[Delgado.Eric@epa.gov](mailto:Delgado.Eric@epa.gov)

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**From:** Thumma, Janelle [<mailto:Janelle.Thumma@WestonSolutions.com>]  
**Sent:** Monday, September 11, 2017 10:50 AM  
**To:** Delgado, Eric <[Delgado.Eric@epa.gov](mailto:Delgado.Eric@epa.gov)>  
**Cc:** R6HarveyInfo <[R6HarveyInfo@epa.gov](mailto:R6HarveyInfo@epa.gov)>  
**Subject:** M6H1 - Harvey Response \_ TAGA Maps Through Today

See attached 4 TAGA maps from 9/5, 9/6, 9/7, and 9/10

***Janelle Thumma***

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